



DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
NAVAL AIR SYSTEMS COMMAND HEADQUARTERS
WASHINGTON, DC 20361 -0001

IN REPLY REFER TO
NAVAIRINST 11320.9
AIR-551
29 Dec 86

NAVAIR INSTRUCTION 11320.9

From: Commander, Naval Air Systems Command

Subj: NAVAL SYSTEMS COMMANDS RESPONSIBILITIES FOR THE NAVY AIRCRAFT FIRE-
FIGHTING AND RESCUE PROGRAM

Ref: (a) NME TRANSITION NOTICE 5400/50 of 23 May 85
(b) NAVAIRINST 5400.109, System Program Manager for Ship and Shore Installations; designation of (NOTAL)
(c) NAVAIR 00-80R-14, USN Aircraft Fire Fighting and Rescue Manual (NOTAL)
(d) NAVAIR 00-80R-19, USN Aircraft Crash and Salvage Operations Manual (NOTAL)
(e) NAVAIR 00-80R-14-1, USN Emergency Rescue Information Manual (NOTAL)
(f) NAVAIRINST 3920.1, Establishment of Naval Air Survivability Program (NASP) (NOTAL)
(g) OPNAVINST 9600.1, Navy Passive Fire Protection Program (NOTAL)

1. Purpose. To assign naval material activities responsibilities for the Navy Aircraft Firefighting and Rescue Program (NAFREPP).

2. Cancellation. NAVMAT Instruction 11320.13A is canceled.

3. Scope. This instruction applies to those commands whose mission includes providing fire protection, detection, and suppression for aircraft fires both ashore and afloat.

4. Background. NAFREP is an essential part of the overall Navy fire protection effort. The constant threat of danger that fire poses to the safe operation of aircraft, both afloat and ashore, demands that an effective program be established and maintained. Modern firefighting has become a technical specialty that requires dedication and well-trained personnel. The firefighter's efforts are devoted to preventing death or injury, limiting damage, and preventing the spread of fire. The task of today's firefighter is complicated by the use of weight saving materials for aircraft construction that exhibit low ignition and toxic burning qualities, compounding the effects of a fire started by common causes. Such problems have been solved in the past by improving firefighting equipment and techniques. While similar gains continue to be made, improvements are also expected in the design and materials of the next generation of aircraft.

5. Definition. NAFREP includes all measures relating to prevention, detection, control, and extinguishment of fires resulting from aircraft operations, and includes the rescue of personnel when endangered by such operations. The ultimate objective of the program is to prevent or minimize injury to personnel and loss or damage of property.



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criteria for fixed systems by providing appropriate inputs for reference (c); and

(7) provide overall technical management and budgetary support of the CV Firefighting Technical Performance Audit Team as directed by reference (a).

c. COMNAVFACENG will

(1) administer the Navy Fire Marshal Program;

(2) develop, design, test specifications, budget, procure, maintain, perform alterations, repair, overhaul, provide logistic support for and distribution control of all shore CFR vehicles as the assigned material manager of civil engineering support equipment, which includes firefighting vehicles;

(3) perform R&D

(a) to improve firefighting or automotive performance of specific shorebased vehicles (R&D to improve general firefighting tactics and/or procedures will be the responsibility of COMNAVAIR (AIR-551));

(b) for the design, operation, and environmental aspects of aircraft firefighting training sites; and

(c) for the safe disposal of firefighting agents and other effluents of firefighting training grounds and discharges from fire protection systems tests;

(4) design and development of aircraft firefighting and rescue training sites;

(5) design, develop, and prepare criteria for all fixed-fire-protection-systems intended to protect against aviation related fire hazards ashore e.g., aircraft hangar sprinkler systems, fixed protection for aircraft fueling areas, and fire protection for jet engine test cells and hush houses;

(6) provide firefighting equipment allowances and administer the assignment, replacement, relocation, and disposal of shorebased CFR vehicles with the cooperative efforts of transportation specialists at transportation equipment management centers and area fire marshals by

(a) providing technical guidance and assistance on CFR vehicle maintenance and utilization;

(b) assuring adequate CFR vehicle distribution control, inventory management, determination of allowances and allocation guidelines, and prioritization between major claimants and end users; and

(c) establishing and maintaining information systems to monitor and control CFR vehicles; and

(7) develop, fund, procure, and distribute shorebased CFR vehicle

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(b) other aviation life support systems; and

(c) systems that permit rapid aircrew egress and minimize time for personnel conducting rescue to extract incapacitated aircrew;

(13) provide operational requirements and firefighting performance parameters on shorebased crash, fire, and rescue (CFR) vehicles to the Commander, Naval Facilities Engineering Command (COMNAVFACENG) for incorporation into appropriate CFR vehicle design and procurement specifications;

(14) advise the Commander, Naval Sea Systems Command (COMNAVSEA) on special aircraft hazards and request development of new or modified fixed-shipboard systems to combat these fire hazards when warranted;

(15) provide operational and performance requirements to Commander, Naval Supply Systems Command (COMNAVSUP) for use in the development of aircraft firefighter's protective clothing and in the establishment of procurement specifications;

(16) conduct periodic reviews and assessments on Naval Safety Center's aviation fire-loss data to determine trends, causative factors, and appropriate corrective action;

(17) obtain recommendations for changes to reference (c) from the fleet to include the type commanders and the Marine Corps;

(18) obtain unique Marine Corps firefighting requirements for inclusion in reference (c); and

(19) obtain inputs from the type commanders to assist in defining shipboard and shorebased operational requirements.

b. COMNAVSEA will

(1) design, procure, provide logistics support, and perform other life-cycle manager functions for all fixed-shipboard-firefighting systems and equipment, including those fixed-fire-protection systems serving the flight deck, hangar deck, helicopter landing pads, and other aviation related spaces;

(2) perform R&D as necessary to provide new and/or improved fixed-shipboard-fire-protection-systems and equipment;

(3) develop maintenance requirements for fixed-shipboard-fire-protection systems;

(4) develop, procure, and distribute technical or training manuals for fixed-shipboard-fire-protection systems;

(5) conduct audits of training courses covering the operation and maintenance of fixed-shipboard-fire-protection systems;

(6) assist COMNAVAIR (AIR-551) in the preparation of readiness

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6. Responsibilities

a. Commander, Naval Air Systems Command (COMNAVAIR), serves as the lead systems command as assigned by reference (a) for overall administration of the Navy Aircraft Firefighting and Rescue Program. To assist COMNAVAIR in performing these functions, the Systems Program Manager, Ship and Shore Installation Division (AIR-551), per reference (b) is the headquarters focal point and NAFREP coordinator. COMNAVAIR will

- (1) serve as the model manager for references (c), (d), and (e);
- (2) manage the design, development, acquisition, and life-cycle support of mobile-shipboard-fire-fighting equipment for aircraft;
- (3) accomplish research and development (R&D) as necessary to improve fire protection and firefighting relating to aircraft, aviation operations, aircraft support equipment, and air-launched weapons systems;
- (4) manage the Naval Weapons Cook-off Program to extend air-launched ordnance cook-off times and reduce the violence of the cook-off reaction for in service and future air-launched weapon systems;
- (5) formulate requirements and implement all thermal protection retrofit for air-launched missiles and ordnance and assure optimum asset readiness during the retrofit process;
- (6) manage the engineering development of cook-off performance improvements of NAVAIR existing air-launched armament and the development of cook-off safe ordnance for new air-launched weapons;
- (7) manage acquisition and logistics of shipboard aircraft crash and salvage equipment;
- (8) analyze and develop personnel training requirements; develop, procure, and distribute training equipment, material, and programs relating to NAFREP;
- (9) conduct audits of training courses covering aircraft firefighting tactics, procedures, and equipment;
- (10) manage the Aircraft Combat Survivability Program as prescribed in reference (f);
- (11) manage acquisition/procurement of fire protection, crash survivability, and survivability equipment, and systems internal to aircraft as prescribed in reference (g);
- (12) manage development, acquisition, and procurement of
 - (a) aircrew fire protective systems that are worn by the aircrew to improve thermal insulation, both, while in the airframe and during egress or rescue;

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technical manuals and vehicle training and orientation programs for new vehicle procurements.

d. COMNAVSUP will

(1) assume program, technical, and material cognizance for crash firefighter's protective clothing. In this capacity, serve as technical custodian for appropriate military specifications covering crash firefighters protective clothing; and

(2) perform necessary management and overall direction of the supply system to assure timely spare parts support.

7. Action. COMNAVSEA, COMNAVSUP, COMNAVFACENG will issue internal directives to establish organization, procedures, and coordination necessary to implement this instruction.



J. B. WILKINSON

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